

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/841,132

DATE: 05/10/2001  
TIME: 09:34:15

Input Set : A:\469c8.app.txt  
Output Set: N:\CRF3\05102001\I841132.raw

4 <110> APPLICANT: Bhatia, Ajay  
5 Skeiky, Yasir A.W.  
6 Probst, Peter  
8 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND  
9 DIAGNOSIS OF CHLAMYDIAL INFECTION  
11 <130> FILE REFERENCE: 210121.469C8  
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/841,132  
14 <141> CURRENT FILING DATE: 2001-04-23  
16 <160> NUMBER OF SEQ ID NOS: 599  
18 <170> SOFTWARE: FastSEQ for Windows Version 3.0/4.0  
20 <210> SEQ ID NO: 1  
21 <211> LENGTH: 481  
22 <212> TYPE: DNA  
23 <213> ORGANISM: Chlamydia trachomatis  
25 <400> SEQUENCE: 1  
26 ctgaagactt ggctatgtt tttatTTGA cgataaaacct agttaaggca taaaaggAGTT 60  
27 gcgaaggaag agccctcaac ttttCTTtac accttCTTta actaggAGTC atccatgagt 120  
28 caaaaataaga actctgCTTT catgcAGCCT gtgaacgtat ccgCTgattt agctGCCatC 180  
29 gttggTgcag gacctatGCC tcgcacAGAG atcattaAGA aaATgtggGA ttacattaAG 240  
30 gagaatAGTC ttcaagatCC tacaaACAAA cgtaatatCA atCCCGatGA taaATTggCT 300  
31 aaagtTTTg gaactgaaaa acctatcgat atgttccaa TGACAAAAAT ggTTTCTCAA 360  
32 cacatcatta aataAAATAG aaATTgACTC acgtgttCCt cgtCTTtaAG atgAGGAact 420  
33 agttcattCT ttttGTTcgt ttttGTTggT attactgtat cttaacaAC tatCTtagCA 480  
34 g  
36 <210> SEQ ID NO: 2  
37 <211> LENGTH: 183  
38 <212> TYPE: DNA  
39 <213> ORGANISM: Chlamydia trachomatis  
41 <400> SEQUENCE: 2  
42 atcgTTggTg caggacCTat gcctcgcaca gagatcatta agaaaATgtG ggattacatt 60  
43 aaggagaata gtcttcaaga tcctacAAAC aaACgtAata tcaatCCGGA tgataAAATTG 120  
44 gctaaAGTTt ttggAACTGA AAAACCTATC gatATgttCC aATgACAAA aATggTTtCT 180  
45 caa  
47 <210> SEQ ID NO: 3  
48 <211> LENGTH: 110  
49 <212> TYPE: DNA  
50 <213> ORGANISM: Chlamydia trachomatis  
52 <400> SEQUENCE: 3  
53 gctgcgacat catgcgagCT tgcaAAACCAA catggacATC tccaatttCC ccttctaact 60  
54 cgctCTTgg aactaatgtCT gctaccgagt caatcacaat cacatcgacc 110  
56 <210> SEQ ID NO: 4  
57 <211> LENGTH: 555  
58 <212> TYPE: DNA  
59 <213> ORGANISM: Chlamydia trachomatis  
61 <400> SEQUENCE: 4  
62 cggcacgAGC ctaAGATgCT tataCTACTt TAAGGGAGGC CCTTCgtatG ccgcgcATCA 60  
63 ttggaatAGA tattcctgCG AAAAGAAAT taaaATAAG tCTTACATAT atttatggAA 120

PF. 214  
Does Not Comply  
Corrected Diskette Needed

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64 tagggccagc tctttctaaa gagattattg cttagattgca gttgaatccc gaagcttagag 180  
 65 ctgcagagtt gactgaggaa gaggttggc gactaaacgc tctttacag tcgattacg 240  
 66 ttgttgaagg ggatttgcgc cgtcgtgtc aatctgatat caaacgtctg attactatcc 300  
 67 atgcattatcg tggacaaaga catagacttt ctttgcctgt tcgtggtcag agaacaaaaa 360  
 68 caaattctcg cacgcgttaag ggttaaacgtaa aactattgc aggttaagaag aaataataat 420  
 69 ttttaggaga gagtgttttg gttaaaaatc aagcgcaaaa aagaggcgta aaaagaaaaac 480  
 70 aagaaaaaa cattccttcg ggcgtgtcc atgttaaggc tactttaat aatacaattg 540  
 71 taaccataac agacc 555  
 73 <210> SEQ ID NO: 5  
 74 <211> LENGTH: 86  
 75 <212> TYPE: PRT  
 76 <213> ORGANISM: Chlamydia trachomatis  
 78 <400> SEQUENCE: 5  
 79 Met Ser Gln Asn Lys Asn Ser Ala Phe Met Gln Pro Val Asn Val Ser  
 80 1 5 10 15  
 81 Ala Asp Leu Ala Ala Ile Val Gly Ala Gly Pro Met Pro Arg Thr Glu  
 82 20 25 30  
 83 Ile Ile Lys Lys Met Trp Asp Tyr Ile Lys Glu Asn Ser Leu Gln Asp  
 84 35 40 45  
 85 Pro Thr Asn Lys Arg Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys Val  
 86 50 55 60  
 87 Phe Gly Thr Glu Lys Pro Ile Asp Met Phe Gln Met Thr Lys Met Val  
 88 65 70 75 80  
 89 Ser Gln His Ile Ile Lys  
 90 85  
 92 <210> SEQ ID NO: 6  
 93 <211> LENGTH: 61  
 94 <212> TYPE: PRT  
 95 <213> ORGANISM: Chlamydia trachomatis  
 97 <400> SEQUENCE: 6  
 98 Ile Val Gly Ala Gly Pro Met Pro Arg Thr Glu Ile Ile Lys Lys Met  
 99 1 5 10 15  
 100 Trp Asp Tyr Ile Lys Glu Asn Ser Leu Gln Asp Pro Thr Asn Lys Arg  
 101 20 25 30  
 102 Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys Val Phe Gly Thr Glu Lys  
 103 35 40 45  
 104 Pro Ile Asp Met Phe Gln Met Thr Lys Met Val Ser Gln  
 105 50 55 60  
 107 <210> SEQ ID NO: 7  
 108 <211> LENGTH: 36  
 109 <212> TYPE: PRT  
 110 <213> ORGANISM: Chlamydia trachomatis  
 112 <400> SEQUENCE: 7  
 113 Ala Ala Thr Ser Cys Glu Leu Ala Asn Gln His Gly His Leu Gln Phe  
 114 1 5 10 15  
 115 Pro Leu Leu Thr Arg Ser Leu Glu Leu Met Leu Leu Pro Ser Gln Ser  
 116 20 25 30  
 117 Gln Ser His Arg  
 118 35

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120 <210> SEQ ID NO: 8  
 121 <211> LENGTH: 18  
 122 <212> TYPE: PRT  
 123 <213> ORGANISM: Chlamydia trachomatis  
 125 <400> SEQUENCE: 8  
 126 Leu Arg His His Ala Ser Leu Gln Thr Asn Met Asp Ile Ser Asn Phe  
 127 1 5 10 15  
 128 Pro Phe  
 131 <210> SEQ ID NO: 9  
 132 <211> LENGTH: 5  
 133 <212> TYPE: PRT  
 134 <213> ORGANISM: Chlamydia trachomatis  
 136 <400> SEQUENCE: 9  
 137 Leu Ala Leu Trp Asn  
 138 1 5  
 140 <210> SEQ ID NO: 10  
 141 <211> LENGTH: 11  
 142 <212> TYPE: PRT  
 143 <213> ORGANISM: Chlamydia trachomatis  
 145 <400> SEQUENCE: 10  
 146 Cys Cys Tyr Arg Val Asn His Asn His Ile Asp  
 147 1 5 10  
 149 <210> SEQ ID NO: 11  
 150 <211> LENGTH: 36  
 151 <212> TYPE: PRT  
 152 <213> ORGANISM: Chlamydia trachomatis  
 154 <400> SEQUENCE: 11  
 155 Val Asp Val Ile Val Ile Asp Ser Val Ala Ala Leu Val Pro Lys Ser  
 156 1 5 10 15  
 157 Glu Leu Glu Gly Glu Ile Gly Asp Val His Val Gly Leu Gln Ala Arg  
 158 20 25 30  
 159 Met Met Ser Gln  
 160 35  
 162 <210> SEQ ID NO: 12  
 163 <211> LENGTH: 122  
 164 <212> TYPE: PRT  
 165 <213> ORGANISM: Chlamydia trachomatis  
 167 <400> SEQUENCE: 12  
 168 Met Pro Arg Ile Ile Gly Ile Asp Ile Pro Ala Lys Lys Lys Leu Lys  
 169 1 5 10 15  
 170 Ile Ser Leu Thr Tyr Ile Tyr Gly Ile Gly Pro Ala Leu Ser Lys Glu  
 171 20 25 30  
 172 Ile Ile Ala Arg Leu Gln Leu Asn Pro Glu Ala Arg Ala Ala Glu Leu  
 173 35 40 45  
 174 Thr Glu Glu Glu Val Gly Arg Leu Asn Ala Leu Leu Gln Ser Asp Tyr  
 175 50 55 60  
 176 Val Val Glu Gly Asp Leu Arg Arg Arg Val Gln Ser Asp Ile Lys Arg  
 177 65 70 75 80  
 178 Leu Ile Thr Ile His Ala Tyr Arg Gly Gln Arg His Arg Leu Ser Leu

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179	85	90	95	
180	Pro Val Arg Gly Gln Arg Thr Lys Thr Asn Ser Arg Thr Arg Lys Gly			
181	100	105	110	
182	Lys Arg Lys Thr Ile Ala Gly Lys Lys Lys			
183	115	120		
185	<210> SEQ ID NO: 13			
186	<211> LENGTH: 20			
187	<212> TYPE: PRT			
188	<213> ORGANISM: Chlamydia trachomatis			
190	<400> SEQUENCE: 13			
191	Asp Pro Thr Asn Lys Arg Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys			
192	1 5 10 15			
193	Val Phe Gly Thr			
194	20			
196	<210> SEQ ID NO: 14			
197	<211> LENGTH: 20			
198	<212> TYPE: PRT			
199	<213> ORGANISM: Chlamydia trachomatis			
201	<400> SEQUENCE: 14			
202	Asp Asp Lys Leu Ala Lys Val Phe Gly Thr Glu Lys Pro Ile Asp Met			
203	1 5 10 15			
204	Phe Gln Met Thr			
205	20			
207	<210> SEQ ID NO: 15			
208	<211> LENGTH: 161			
209	<212> TYPE: DNA			
210	<213> ORGANISM: Chlamydia trachomatis			
212	<400> SEQUENCE: 15			
213	atctttgtgt gtctcataag cgccagacgg ctgcggctgt ctgtagcttc atcggaggaa	60		
214	ttacacctt cgccacattc ggagctatcc gtccgattct gtttgcacaaaatgctgg	120		
215	cgcaaccgtt tctttcttcc caaactaaag caaatatggg a	161		
217	<210> SEQ ID NO: 16			
218	<211> LENGTH: 897			
219	<212> TYPE: DNA			
220	<213> ORGANISM: Chlymidia trachomatis			
222	<400> SEQUENCE: 16			
223	atggcttcta tatgcggacg tttagggtct ggtacaggga atgctctaaa agcttttttt	60		
224	acacagccca acaataaaat ggcaagggtta gtaaaaataaga cgaaggaaat ggataagact	120		
225	attaagggtt ccaagtctgc tgcgcatttgc acggcaatgg ttttggaaaca agctggaggc	180		
226	gccccgttcc cccgcacat tacagttcc caagtgtcc aaggattttgg ggtatgcgaga	240		
227	actgttgcg cttttagggaa tgccttaac ggagcgttgc caggaacatgt tcaaagtgcg	300		
228	caaagcttct tcttcacat gaaagctgtc agtcagaaaaa cgcaagaagg ggtatgggg	360		
229	ctcacagcag atctttgtgt gtctcataag cgccagacgg ctgcggctgt ctgtagcatc	420		
230	atccggggaa ttacacctt ccgcacattc ggagctatcc gtccgattct gtttgcac	480		
231	aaaatgctgg caaaaccgtt tctttcttcc caaactaaag caaatatggg atcttctgtt	540		
232	agctatatta tggcggttcaatccatgcagcg tctgtgggg gttgtggact cgctatcgt	600		
233	gccccggaaatgg cagattgcga agcccgctgc gtcgttatttgc gggatggaaatgg	660		
234	gaaatgcgg gggatggaaa tgcttgcag aagaaatgcg ctggggatggaa agccaaagacg	720		
235	ttcacgcgca tcaagtatgc actccctact atgctcgaga agttttggaa atgcgttgc	780		

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236 gacgtttca aattggtgcc gctgcctatt acaatgggta ttctgtgcgt tggctgct 840  
 237 ggatgtacgt tcacttctgc aattattgga ttgtgcactt tctgcgccag agcataa 897  
 239 <210> SEQ ID NO: 17  
 240 <211> LENGTH: 298  
 241 <212> TYPE: PRT  
 242 <213> ORGANISM: Chlamydia trachomatis  
 244 <400> SEQUENCE: 17  
 245 Met Ala Ser Ile Cys Gly Arg Leu Gly Ser Gly Thr Gly Asn Ala Leu  
 246 1 5 10 15  
 247 Lys Ala Phe Phe Thr Gln Pro Asn Asn Lys Met Ala Arg Val Val Asn  
 248 20 25 30  
 249 Lys Thr Lys Gly Met Asp Lys Thr Ile Lys Val Ala Lys Ser Ala Ala  
 250 35 40 45  
 251 Glu Leu Thr Ala Asn Ile Leu Glu Gln Ala Gly Gly Ala Gly Ser Ser  
 252 50 55 60  
 253 Ala His Ile Thr Ala Ser Gln Val Ser Lys Gly Leu Gly Asp Ala Arg  
 254 65 70 75 80  
 255 Thr Val Val Ala Leu Gly Asn Ala Phe Asn Gly Ala Leu Pro Gly Thr  
 256 85 90 95  
 257 Val Gln Ser Ala Gln Ser Phe Phe Ser His Met Lys Ala Ala Ser Gln  
 258 100 105 110  
 259 Lys Thr Gln Glu Gly Asp Glu Gly Leu Thr Ala Asp Leu Cys Val Ser  
 260 115 120 125  
 261 His Lys Arg Arg Ala Ala Ala Val Cys Ser Ile Ile Gly Gly Ile  
 262 130 135 140  
 263 Thr Tyr Leu Ala Thr Phe Gly Ala Ile Arg Pro Ile Leu Phe Val Asn  
 264 145 150 155 160  
 265 Lys Met Leu Ala Lys Pro Phe Leu Ser Ser Gln Thr Lys Ala Asn Met  
 266 165 170 175  
 267 Gly Ser Ser Val Ser Tyr Ile Met Ala Ala Asn His Ala Ala Ser Val  
 268 180 185 190  
 269 Val Gly Ala Gly Leu Ala Ile Ser Ala Glu Arg Ala Asp Cys Glu Ala  
 270 195 200 205  
 271 Arg Cys Ala Arg Ile Ala Arg Glu Glu Ser Leu Leu Glu Val Pro Gly  
 272 210 215 220  
 273 Glu Glu Asn Ala Cys Glu Lys Lys Val Ala Gly Glu Lys Ala Lys Thr  
 274 225 230 235 240  
 275 Phe Thr Arg Ile Lys Tyr Ala Leu Leu Thr Met Leu Glu Lys Phe Leu  
 276 245 250 255  
 277 Glu Cys Val Ala Asp Val Phe Lys Leu Val Pro Leu Pro Ile Thr Met  
 278 260 265 270  
 279 Gly Ile Arg Ala Ile Val Ala Ala Gly Cys Thr Phe Thr Ser Ala Ile  
 280 275 280 285  
 281 Ile Gly Leu Cys Thr Phe Cys Ala Arg Ala  
 282 290 295  
 284 <210> SEQ ID NO: 18  
 285 <211> LENGTH: 18  
 286 <212> TYPE: PRT  
 287 <213> ORGANISM: Chlamydia trachomatis

Please Note:

Use f n and/ r Xaa have been detect d in the Sequence Listing. Please review the Sequence Listing to ensure that a c rresponding explanation is presented in the <220> to <223> fields f ach sequence which presents at least ne n or Xaa.

VERIFICATION SUMMARY  
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Input Set : A:\469c8.app.txt  
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L:13 M:270 C: Current Application Number differs, Wrong Format  
L:709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69  
L:1265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72  
L:1266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72  
L:1295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73  
L:1296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73  
L:1297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73  
L:1358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76  
L:2310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120  
L:3766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175  
L:3970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176  
L:5193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189  
L:5197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189  
L:5219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189  
L:5221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189  
L:5223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189  
L:6854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:263  
L:6895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264  
L:6931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265  
L:6972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266  
L:7058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:271  
L:7316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287  
L:17644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:492  
L:18675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:512  
L:18677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:512  
L:19520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:524  
L:19522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:524